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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 05-01-18

Lab ID	:	**CP-2018-01-03-01**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-18
Sample ID No	:	2018-01-03-01/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.615	561	628	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.887	572	682	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.561	589	695	19.0%	Satisfactory	Satisfactory

Note:

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Format No: CP/IT/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-01-05-02 **Date: 09-01-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains at Ambedkar Nagar in Ward No.04

Agency : Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/107/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-18

Sample ID No : 2018-01-05-02/01

Sample Type /Size : Precast Cover Slab(250mm Thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.21	250.55	2.416	17718	333.9	18.8	17.5	21.9
2	Cover Slab-2	150.39	250.50	2.322	17760	338.3	19.0	17.7	22.1
3	Cover Slab-3	150.42	250.49	2.358	17767	341.5	19.2	17.9	22.3

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-01-05-02 **Date: 09-01-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains at Ambedkar Nagar in Ward No.04

Agency : Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.

Customer's Reference : EE(Project)/YnkZone/WO/107/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-18

Sample ID No : 2018-01-05-02/02

Sample Type /Size : Precast Cover Slab(100mm Thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.45	1.816	4477	83.9	18.7	17.4	21.8
2	Cover Slab-2	75.49	100.50	1.722	4475	84.3	18.8	17.5	21.9
3	Cover Slab-3	75.52	100.47	1.858	4478	82.5	18.4	17.1	21.4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2018

Lab ID	:	**CP-2018-01-10-01**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-01/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	15/01/2018	151.36 X 149.84 X 150.31	22680	8.268	410.5	18.1	17.5
2	Drain Concrete	M20	08/01/2018	15/01/2018	151.89 X 151.29 X 148.10	22979	8.189	390.7	17.0	
3	Drain Concrete	M20	08/01/2018	15/01/2018	151.21 X 150.82 X 148.47	22805	8.258	394.5	17.3	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2018

Lab ID	:	CP-2018-01-10-01
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-01/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	05/02/2018	148.44 X 149.73 X 150.84	22226	8.177	471.2	21.2	21.0
2	Drain Concrete	M20	08/01/2018	05/02/2018	151.89 X 148.58 X 149.62	22568	8.159	469.4	20.8	
3	Drain Concrete	M20	08/01/2018	05/02/2018	150.37 X 151.73 X 149.95	22816	8.207	481.4	21.1	

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Date: 15/01/2018

Lab ID	:	CP-2018-01-10-01
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-01/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	15/01/2018	149.48 X 150.77 X 148.56	22537	8.271	365.1	16.2	16.4
2	Drain Concrete	M20	08/01/2018	15/01/2018	151.82 X 151.58 X 149.47	23013	8.194	377.4	16.4	
3	Drain Concrete	M20	08/01/2018	15/01/2018	151.63 X 149.81 X 150.32	22716	8.266	379.4	16.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2018

Lab ID	:	**CP-2018-01-10-01**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-01/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/01/2018	05/02/2018	150.77 X 149.45 X 148.83	22533	8.229	520.5	23.1	22.8
2	Drain Concrete	M20	08/01/2018	05/02/2018	151.28 X 150.52 X 149.68	22771	8.196	512.3	22.5	
3	Drain Concrete	M20	08/01/2018	05/02/2018	151.89 X 150.67 X 149.51	22885	8.247	519.5	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/01/2018

Lab ID	:	CP-2018-01-12-03
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-18
Sample ID No	:	2018-01-12-03/01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	10/01/2018	17/01/2018	151.28 X 150.33 X 150.49	22742	8.197	541.3	23.8	23.3
2	Cement Concrete Pavement	M30	10/01/2018	17/01/2018	150.64 X 150.33 X 149.78	22646	8.153	523.1	23.1	
3	Cement Concrete Pavement	M30	10/01/2018	17/01/2018	151.22 X 150.47 X 150.98	22754	8.165	521.1	22.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/02/2018

Lab ID	:	**CP-2018-01-12-03**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-18
Sample ID No	:	2018-01-12-03/02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	10/01/2018	07/02/2018	149.87 X 151.64 X 150.97	22726	8.210	743.1	32.7	32.8
2	Cement Concrete Pavement	M30	10/01/2018	07/02/2018	150.21 X 150.47 X 150.67	22602	8.198	748.1	33.1	
3	Cement Concrete Pavement	M30	10/01/2018	07/02/2018	150.11 X 150.49 X 150.37	22590	8.147	734.2	32.5	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-01-04-02** **Date: 06-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-18
Sample ID No	:	2018-01-04-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	04-01-18
Oven Dry Weight	:	10900 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.6	76.4	60-80
11.2	2179	4753	43.6	56.4	40-60
4.75	2251	7004	64.3	35.7	25-40
2.36	1621	8625	79.1	20.9	15-30
0.6	623	9248	84.8	15.2	8-22
0.075	1338	10586	97.1	2.9	0-5

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-01-04-02** **Date:** *06-01-18*
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-18
Sample ID No	:	2018-01-04-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-01-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore

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End of Report

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Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-01-04-02** **Date: 06-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains at Ambedkar Nagar in Ward No.04
Agency	:	Sri.Ramesh Y.B, No.34, Down Bazaar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(Project)/YnkZone/WO/107/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-18
Sample ID No	:	2018-01-04-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-01-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.1%	
Combined Flakiness and Elongation Index for WMM	26.9%	

Note:-
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CIVIL Pro Sig..... Date..... BANGALORE

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